List of reference symbols:

1 Post

2 Flap, barrier element

3 Plate

4 Base

5 DC servo motor

6 Locking unit

Claims

1. A drive device for passage barriers or thoroughfare barriers and door or gate drives, having a brushless DC servo motor, characterized
in that the DC servo motor (5) has an associated servo controller and the output shaft of the DC servo motor (5) is connected directly to the drive shaft of the barrier element (2).

2. The drive device as claimed in claim 1, characterized by a compact complete control device which comprises the servo controller and a logic section and a housing, and which serves to control the motor (5) as a function of signals.

3. The drive device as claimed in claim 2, characterized in that the logic section is designed as a pluggable logic circuit board.

4. The drive device as claimed in claim 3, characterized in that different logic circuit boards can be plug-connected, different movement profiles and programs which are directed at various applications are prespecified on said logic circuit boards, and said logic circuit boards have different numbers of inputs and outputs and different operator control and display elements, depending on requirements.

5. The drive device as claimed in claim 1, characterized by a transmitter system which is integrated in the motor and supplies the required control signals.

6. The drive device as claimed in claim 6, characterized in that the motor mount is formed as a fixed mount on the side of the transmitter system.

7. The drive device as claimed in claim 6, characterized in that the transmitter system is connected to the motor

plate by means of plug connection or clamping.

8. The drive device as claimed in claim 8, characterized in that the plug connection is designed to be secure against polarity reversal and is provided with a locking means.

9. The drive device as claimed in claim 1, characterized in that commutation and position control in the motor are performed by means of a magnetoresistive sensor.

10. The drive device as claimed in claim 1, characterized in that commutation and position control in the motor are performed by means of resolvers or encoders or Hall sensors.

11. The drive device as claimed in claim 1, characterized in that a linkage can be interconnected between the servo motor and the barrier element which is to be moved.

12. The drive device as claimed in claim 1, characterized in that a step-down gear mechanism and a linkage can be interconnected between the servo motor and the element which is to be moved.

13. The drive device as claimed in claim 2, characterized in that the inputs and outputs are separate from the actual motor control system/logic circuit board and designed as an independent module.

14. The drive device as claimed in claim 13, characterized in that the inputs and outputs can be connected by a pluggable bus connection or a pluggable, multicore cable.